

IAP12 Rec'd PCT/PTO 25 JUN 2007 PCT

PTO/SB/21 (04-07)(modified)

Approved for use through 09/30/2007, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

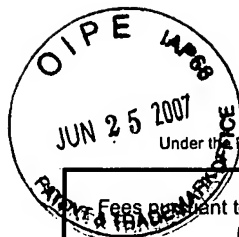
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)		<b>Complete if Known</b>	
		Application Number	10/588,583
		Filing Date	August 4, 2006
		First Named Inventor	Suzuki
		Art Unit	Not yet known
Examiner Name		Not yet known	
Total Number of Pages in This Submission	13	Attorney Docket No.	YH0028-US1

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate) <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Reply to Missing Parts/Incomplete Application  <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return postcard, Declaration & Power of Attorney, Copy of Notification of Missing Requirements Under 35 U.S.C. 371, SB08A&B in duplicate with copies of art
Remarks: (Duplicate copy of Fee Transmittal for deposit account, Return Postcard and Cited Art are not counted in total number of pages in this submission.)		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Tyco Electronics Corporation		
Signature	<i>Marguerite E. Gerstner</i>		
Printed Name	Marguerite E. Gerstner		
Date	June 20, 2007	Reg. No.	32,695

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	<i>Marguerite E. Gerstner</i>		
Typed or printed name	Marguerite E. Gerstner	Date	June 20, 2007



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<b>FEE TRANSMITTAL</b> <b>For FY 2007</b>		<b>Complete if Known</b>		
		Application Number	10/588,583	
		Filing Date	August 4, 2006	
		First Named Inventor	Suzuki	
		Examiner Name	Not yet known	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Art Unit	Not yet known	
TOTAL AMOUNT OF PAYMENT	(\$)	130.00	Attorney Docket No.	YH0028-US1

**METHOD OF PAYMENT** (check all that apply)

- ☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_
- ☒ Deposit Account      Deposit Account Number: 18-0560      Deposit Account Name: Tyco Electronics Corporation
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☒ Charge fee(s) indicated below      ☐ Charge fee(s) indicated below, except for the filing fee
- ☒ Charge any additional fee(s) or underpayments of fee(s)      ☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION** (All the fees below are due upon filing or may be subject to a surcharge.)

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
_____ - 20 or HP = _____ x _____ = _____				Fee (\$)

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____ - 3 or HP = _____ x _____ = _____			

HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____				

**4. Other Fee(s)**

Non-English Specification, \$130 fee (no small entity discount)	Fees Paid (\$)
Other (e.g., late filing surcharge): <u>Late Filing of Declaration</u>	N/A
	130.00

**SUBMITTED BY**

Signature	<u>Marguerite E. Gerstner</u>	Registration No. (Attorney/Agent)	32,695	Telephone	650-361-2483
Name (Print/Type)	Marguerite E. Gerstner			Date	June 20, 2007

**Certificate of Mailing (37 CFR 1.8)**

I hereby certify that this paper or fee is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below:

Date of deposit: June 20, 2007      Name (printed): Marguerite E. Gerstner

Signature: Marguerite E. Gerstner      06/28/2007 GFREY1      00000117 180560      10588583  
01 FC:1617      130.00 DA



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/588,583	Katsuaki Suzuki	YH0028-US1

INTERNATIONAL APPLICATION NO.
-------------------------------

PCT/JP05/01481

27788  
TYCO ELECTRONICS CORPORATION  
MAIL STOP R20/2B  
307 CONSTITUTION DRIVE  
MENLO PARK, CA 94025

RECEIVED

MAY - 7 2007

I.A. FILING DATE	PRIORITY DATE
02/02/2005	02/06/2004

CONFIRMATION NO. 8731

371 FORMALITIES LETTER



\*OC000000023599650\*

IPLD MENLO PARK  
DOCKETED  
05/01/07

Date Mailed: 05/01/2007

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 08/04/2006
- English Translation of the IA filed on 08/04/2006
- Copy of the International Search Report filed on 08/04/2006
- Preliminary Amendments filed on 08/04/2006
- U.S. Basic National Fees filed on 08/04/2006
- Priority Documents filed on 08/04/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

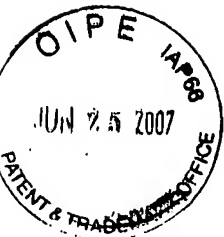
ANITA D JOHNSON

Telephone: (703) 308-9140 EXT 226

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/588,583	PCT/JP05/01481	YH0028-US1

FORM PCT/DO/EO/905 (371 Formalities Notice)



PATENT APPLICATION  
YH0028-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	) Group Art Unit: Not yet known
	)
SUZUKI	) Examiner: Not yet known
	)
Application No. 10/588,583	) TYCO ELECTRONICS CORPORATION
	) 307 Constitution Drive
Filed: August 4, 2006	) Menlo Park, CA 94025
	)
For: SWITCH AND DEVICE USING	) June 20, 2007
THE SWITCH	)

REPLY TO NOTICE OF MISSING PARTS

and

DISCLOSURE STATEMENT UNDER 37 CFR § 1.56

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office, dated May 1, 2007, attached is the signed Declaration. Please charge the surcharge (\$130) for this submission to Deposit Account No. 18-0560. Any deficiency or overpayment should be charged or credited to this deposit account.

Disclosure Under 37 CFR § 1.56

In fulfilling the duty of candor and good faith, the following documents are hereby disclosed to the Patent Office in accordance with 37 CFR § 1.56. It is not admitted that the information in the listed documents is material to patentability as defined in 37 CFR § 1.56(b). The Examiner is requested to consider the documents in the examination of this application.

CERTIFICATE OF MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Name of person signing certificate: Marquerite E. Gerstner

Signature: Marquerite E. Gerstner Date: June 20, 2007

Accompanying this statement are Forms PTO/SB/08A and PTO/SB/08B in duplicate on which the documents are listed. The Examiner is requested to return an initialed and signed copy of the forms once the documents have been considered.

The following documents were cited by the Japanese Patent Office in the International Search Report for International Application No. PCT/JP2005/001481 which is a counterpart for this application. Each of the documents was cited in category "A" as a "document defining the general state of the art which is not considered to be of particular relevance". A copy of the Search Report is attached.

#### FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation	Category
JP-3-121636-A	12-12-1991	Seikosha Co. Ltd.	No	A
JP-59-215617-A	12-05-1984	Tomoyoshi Miyata	No	A
JP-09-326225-A	12-16-1997	Fuji Tanshi Kogyo KK	Abstract	A

The following documents were cited by the European Patent Office in the Supplementary European Search Report for European Application No. 05709602.6, which is a counterpart for this application. One document was cited in both category "X" ("particularly relevant if taken alone") and category "Y" ("particularly relevant if combined with another document of the same category"); two documents were cited in category "Y"; and two documents were in category "A" as "technological background". A copy of the Search Report is attached.

#### U.S. PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Category
US-3454733-A	07-08-1969	Sanford et al.	Y
US-5473495-A	12-05-1995	Bauer	A

#### FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation	Category
GB-2341729-A	03-22-2000	Rover Group	N/A	X, Y
EP-0363746-A1	04-18-1990	Asea Brown Boveri	N/A	Y
EP-0756301-A2*	01-29-1997	Thermik Geraetebau GmbH	US counterpart	A

\* Counterpart of U.S. Patent No. 5,745,022 (Becher et al.)

The following document is referred to in the specification.

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Name of Patentee or Applicant	Translation
JP-10-188716	07-21-1998	Yazaki Corp.	Abstract

Copies of Documents

A copy of each of the cited documents, as well as the US counterpart for EP 0756301, is attached.

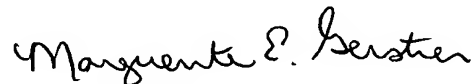
Fee

Applicant believes that because this Disclosure Statement is being submitted before the mailing of a first action on the merits, no fee is due. If this is incorrect, please charge any necessary fee to Deposit Account No. 18-0560.

Conclusion

If there are any questions, the Examiner is asked to call the undersigned.

Respectfully submitted,



Marguerite E. Gerstner  
Registration No. 32,695  
Telephone (650) 361-2483